



SEQUENCE LISTING

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<120> Fusion Proteins of *Mycobacterium Tuberculosis*

<130> 014058-009050US

<140> US 09/597,796

<141> 2000-06-20

<150> US 09/056,556

<151> 1998-04-07

<150> US 09/223,040

<151> 1998-12-30

<150> WO PCT/US99/07717

<151> 1999-04-07

<150> US 09/287,849

<151> 1999-04-07

<150> US 60/158,338

<151> 1999-10-07

<150> US 60/158,425

<151> 1999-10-07

<160> 2

<170> PatentIn Ver. 2.1

<210> 1

<211> 588

<212> DNA

<213> *Mycobacterium tuberculosis*

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<223> Ra35, N-terminus of MTB32A (TbRa35FL)

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<221> CDS

<222> (1)..(588)

<223> Ra35

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1 5 10 15

48

ccc ctc gac ccg tcc gcg atg gtc gcc caa gtg ggg cca cag gtg gtc  
Pro Leu Asp Pro Ser Ala Met Val Ala Gln Val Gly Pro Gln Val Val  
20 25 30

96

aac atc aac acc aaa ctg ggc tac aac aac gcc gtg ggc gcc ggg acc  
Asn Ile Asn Thr Lys Leu Gly Tyr Asn Asn Ala Val Gly Ala Gly Thr  
35 40 45

144

B3

ggc atc gtc atc gat ccc aac ggt gtc gtg ctg acc aac aac cac gtg Gly Ile Val Ile Asp Pro Asn Gly Val Val Leu Thr Asn Asn His Val	192
50 55 60	
atc gcg ggc gcc acc gac atc aat gcg ttc agc gtc ggc tcc ggc caa Ile Ala Gly Ala Thr Asp Ile Asn Ala Phe Ser Val Gly Ser Gly Gln	240
65 70 75 80	
acc tac ggc gtc gat gtg gtc ggg tat gac cgc acc cag gat gtc gcg Thr Tyr Gly Val Asp Val Val Gly Tyr Asp Arg Thr Gln Asp Val Ala	288
85 90 95	
gtg ctg cag ctg cgc ggt gcc ggt ggc cta cca tcg gcg gcg atc ggt Val Leu Gln Leu Arg Gly Ala Gly Gly Leu Pro Ser Ala Ala Ile Gly	336
100 105 110	
ggc ggc gtc gcg gtt ggt gag ccc gtc gtc gcg atg ggc aac agc ggt Gly Gly Val Ala Val Gly Glu Pro Val Val Ala Met Gly Asn Ser Gly	384
115 120 125	
ggg cag ggc gga acg ccc cgt gcg gtg cct ggc agg gtg gtc gcg ctc Gly Gln Gly Gly Thr Pro Arg Ala Val Pro Gly Arg Val Val Ala Leu	432
130 135 140	
ggc caa acc gtc cag gcg tcg gat tcg ctg acc ggt gcc gaa gag aca Gly Gln Thr Val Gln Ala Ser Asp Ser Leu Thr Gly Ala Glu Glu Thr	480
145 150 155 160	
ttg aac ggg ttg atc cag ttc gat gcc gcg atc cag ccc ggt gat tcg Leu Asn Gly Leu Ile Gln Phe Asp Ala Ala Ile Gln Pro Gly Asp Ser	528
165 170 175	
ggc ggg ccc gtc aac ggc cta gga cag gtg gtc ggt atg aac acg Gly Gly Pro Val Val Asn Gly Leu Gly Gln Val Val Gly Met Asn Thr	576
180 185 190	
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<213> *Mycobacterium tuberculosis*

<223> Ra35, N-terminus of MTB32A (TbRa35FL)

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35 40 45	
Gly Ile Val Ile Asp Pro Asn Gly Val Val Leu Thr Asn Asn His Val	
50 55 60	
Ile Ala Gly Ala Thr Asp Ile Asn Ala Phe Ser Val Gly Ser Gly Gln	
65 70 75 80	
Thr Tyr Gly Val Asp Val Val Gly Tyr Asp Arg Thr Gln Asp Val Ala	
85 90 95	

B3

Val Leu Gln Leu Arg Gly Ala Gly Gly Leu Pro Ser Ala Ala Ile Gly  
100 105 110  
Gly Gly Val Ala Val Gly Glu Pro Val Val Ala Met Gly Asn Ser Gly  
115 120 125  
Gly Gln Gly Gly Thr Pro Arg Ala Val Pro Gly Arg Val Val Ala Leu  
130 135 140  
Gly Gln Thr Val Gln Ala Ser Asp Ser Leu Thr Gly Ala Glu Glu Thr  
145 150 155 160  
Leu Asn Gly Leu Ile Gln Phe Asp Ala Ala Ile Gln Pro Gly Asp Ser  
165 170 175  
Gly Gly Pro Val Val Asn Gly Leu Gly Gln Val Val Gly Met Asn Thr  
180 185 190  
Ala Ala Ser  
195.